IN THE CLAIMS:

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The following claim listing replaces all prior versions:

1-4. (Canceled)

- (Previously presented) An isolated nucleic acid comprising a nucleotide sequence encoding a mutated human alpha synuclein protein having a mutation at position 209 wherein a guanine is replaced by an adenine.
- 2 6. (Presently amended) An isolated nucleic acid comprising the sequence given in SEQ ID NO. 1.
 - 7-9. (Cancelled)
- 3 16. (Previously presented) A vector comprising the isolated nucleic acid of claim 5.
- (Previously presented) An isolated host cell comprising the vector of claim 10.
 - 12-74. (Cancelled)
- 5 %. (Previously presented) A method of detecting subjects at increased risk for Parkinson's Disease, comprising:

obtaining a sample comprising nucleic acids from the subjects; and detecting in the nucleic acids the presence of the nucleic acid of claim 8, thereby identifying subjects at increased risk for Parkinson's Disease.

(Previously presented) A method of detecting subjects at increased risk for Parkinson's Disease, comprising:

obtaining a sample comprising nucleic acids from the subjects; and

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detecting in the nucleic acids the presence of the nucleic acid of claim β , thereby identifying subjects at increased risk for Parkinson's Disease.

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